



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

WOLFGANG DÖRING ET AL.

Group Art Unit: Unknown

Examiner: Unknown

Serial No.: 10/595,067

Filed: January 27, 2006

For: METHOD FOR THE PRODUCTION OF OH-PROTECTED
[4-(2,6-DIAMINO-9H-PURIN-9-YL)-1,3-DIOXOLAN-2-
YL]METHANOL DERIVATIVES

Attorney Docket No.: WAS 0757 PUSA

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(b)**

Mail Stop Amendment
Commissioner for Patents
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and §§ 1.97-1.98, the references listed and identified on the attached Forms PTO/SB08A and/or SB08B are being submitted herewith for consideration by the Examiner. This statement is being filed in accordance with 37 C.F.R. § 1.97(b).

While this Statement is being filed in compliance with the duty of disclosure, citation of the listed references is not to be construed as an admission that any of the references are "material" as defined under 37 C.F.R. § 1.56(b).

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 (FIRST CLASS MAIL)

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

4/18/2006
Date of Deposit


William G. Conger
Name of Person Signing


Signature

Accompanying the Information Disclosure Statement is the statement of Dr. Robert Fränkel describing the content of the references cited in the Information Disclosure Statement.

No copies of the listed U.S. patent references or the listed U.S. patent application publication references have been included herewith pursuant to 37 C.F.R. § 1.98(a)(2). All other references have been provided as required. Consideration and entry into the record of the listed references is respectfully requested.

Respectfully submitted,
WOLFGANG DORING ET AL.

By: 
William G. Conger
Reg. No. 31,209
Attorney/Agent for Applicant

Date: April 18, 2006

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Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO

(use as many sheets as necessary)

Complete if Known

Sheet	1	of	2	Attorney Docket Number	WAS 0757 PUSA
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[illegible][illegible]

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Substitute for Form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/595,067
				Filing Date	January 27, 2006
				First Named Inventor	WOLFGANG DÖRING ET AL.
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	2	of	2	Attorney Docket Number	WAS 0757 PUSA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Kim et al., "1,3-Dioxolanylpurine Nucleosides (2R,4R) and (2R,4S) with Selective Anti-HIV-1 Activity in Human Lymphocytes," J. MED. CHEM., Vol. 36, 1993, pp. 30-37	
		Evans et al., "Divergent Asymmetric Syntheses of Dioxolane Nucleoside Analogues," TETRAHEDRON: ASSYMMETRY, Vol. 4, No. 11, 1993, pp. 2319-2322	
		Kim et al., "L-β-(2S,4S)- and L-α-(2S,4R)-Dioxolanyl Nucleosides as Potential Anti-HIV Agents: Asymmetric Synthesis and Structure-Activity Relationships," JOURNAL OF MEDICINAL CHEMISTRY, Vol. 36, No. 5, March 1993, pp. 519-528	
		Vobrüggen et al., "On the Mechanism of Nucleoside Synthesis," CHEM. BER. 114, 1981, pp. 1256-1268	
		March et al., "Advanced Organic Chemistry," Wiley & Sons, Inc., 3 rd Edition, p. 179 and pp. 310-317	
		Greene et al., "Protection for the Hydroxyl Group Including 1,2- and 1,3-Diols," PROTECTIVE GROUPS IN ORGANIC SYNTHESIS, John Wiley & Sons, Inc., 2 nd Edition, pp. 10-117	
		"Protection for the Amino Group," PROTECTIVE GROUPS IN ORGANIC SYNTHESIS, John Wiley & Sons, Inc., 2 nd Edition, pp. 309-385	

Examiner Signature		Date Considered	
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METHOD FOR THE PRODUCTION OF OH PROTECTED [4-(2.6-DIAMINO-9H-
PURINE-9-YL)- 1.3-DIOXOLANE-2-YL]METHANOL DERIVATIVES

Information Disclosure Statement

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir or Madam:

I, Robert Fränkel, associated with the preparation and prosecution of the above-identified application, residing at Krottenkopfstr. 8, 81377 München, Germany, wish to call the attention of the Patent Examiner to the references enumerated on the enclosed PTO Form-1449.

I believe the documents enumerated on the enclosed Form PTO-1449 and attached thereto, are cited in the enclosed International Search Report as well as in the application and may be material to the examination of the application.

Therefore, it is respectfully requested that the foregoing Information Disclosure Statement be considered by the Examiner and incorporated into the file of this application.

I wish to comment as follows concerning the prior art references enumerated on PTO Form-1449:

EP 1 258 486 A2, cited in the International Search Report, is already in English language.

WO 01/58894 A1, cited in the International Search Report, is already in English language.

WO 92/14729 A1, cited in the application, is already in English language.

WO 97/21706 A1, cited in the application, is already in English language.

KIM ET AL.: "L- β -(2S,4S)- and L- α -(2S,4R)-Dioxolanyl Nucleosides as Potential Anti-HIV Agents: Asymmetric Synthesis and Structure-Activity Relationships", Journal of Medicinal Chemistry, Vol. 36, No. 5, March 1993, Pages 519 – 528, cited in the International Search Report, is already in English language.

KIM ET AL.: "1,3-Dioxolanylpurine Nucleosides (2R,4R) and (2R,4S) with Selective Anti-HIV-1 Activity in Human Lymphocytes", Journal of Medicinal Chemistry, Vol. 36, No. 5, March 1993, Pages 30 – 37, cited in the International Search Report, is already in English language.

EVANS ET AL.: "Divergent Asymmetric Syntheses of Dioxolane Nucleoside Analogues", Tetrahedron: Asymmetry, Vol. 4, No. 11, 1993, Pages 2319 – 2322, cited in the International Search Report, is already in English language.

GREENE ET AL., WUTS ET AL.: „Protective Groups in Organic Synthesis“, John Wiley & Sons, Inc., 2nd Edition, Pages 10 – 117 and Pages 309 – 385, cited in the application, is already in English language.

VORBRÜGGEN ET AL., HOEFLE ET AL.: "On the Mechanism of Nucleoside Synthesis", Chem. Ber. 114, 1981, Pages 1256 – 1268, cited in the application, is already in English language.

MARCH ET AL.: "Advanced Organic Chemistry", Wiley & Sons, Inc., 3rd Edition, Page 179 and Pages 310 – 312, cited in the application, is already in English language.

Signed this 06 day of February, 2006.



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Dr. Robert Fränkel